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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/482,926	01/14/2000	Jae Joung Beom	046-0658P-SP	7693

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EXAMINER

LY, ANH

ART UNIT

PAPER NUMBER

2172

DATE MAILED: 03/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/482,926

Applicant(s)

BEOM, JAE JOUNG

Examiner

Anh Ly

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 January 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Drawings

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.
2. Claims 1-12 are pending in this application.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- KW
- 6-7 and 12
4. Claim 1-3^{6-7 and 12} are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,134,554 issued to Freimann et al. (hereinafter Freimann).

With respect to claim 1, Freimann discloses a memory for storing table IDs and version numbers of sections for each of the table IDs, a combination of at least one of

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the sections forming a table which added information defines (col. 2, lines 51-63, col. 6, lines 27-62, col. 7, lines 27-42, col. 8, lines 65-67 and col. 9, lines 1-67); a comparing unit for determining match of a table ID included in the section and the table IDs stored in the memory upon reception of the section, and comparing the version number of the matched table ID to the version number of a received section number (col. 1, lines 50-67, col. 2, lines 51-63, col. 5, lines 57-67, col. 6, lines 1-26, col. 8, lines 65-67, col. 9, lines 1-67 and col. 10, lines 1-38); and a section processing unit for receiving, and processing the present section if it is determined that the version number stored in the table ID the same with the table ID of the section received from the comparing unit is not the same with the version number of the received section (see abstract, col. 1, lines 35-49, col. 3, lines 59-67, col. 4, lines 1-36 and lines 59-67, and col. 5, lines 1-45).

Freimann does not clearly disclose "a section processing unit for receiving and processing the section." But, however, Freimann shows a transmission unit for a receiving system that receives all type tables including NIT table. NIT table may have a level one filtering criteria of identifying a table ID (col. 5, lines 1-45). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the teachings of Freimann such as a memory for storing table IDs, a comparing unit, and a section processing unit so as to have a device for filtering added information.

With respect to claim 2, Freimann discloses the section processing unit skips the section received at the present time if it is determined at the comparing unit that no table IDs are in match, or the version number stored in the matched table ID is the

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same with the version number of the received section (col.4, lines 59-67, col. 5, lines 1-45, and lines 57-67 and col. 6, lines 1-37).

With respect to claim 3, Freimann discloses wherein the section processing unit automatically sets up a version value stored in the memory with a new version number when a section with a new version is received (col. 10, lines 27-38).

With respect to claim 6, Freimann discloses upon reception of the section, determining match of the table ID included in the section and the table IDs stored in the memory (col. 2, lines 51-63, col. 5, lines 57-67, col. 6, lines 1-26, col. 7, lines 27-42, col. 8, lines 1-54 and lines 65-67 and col. 9, lines 1-67); if it is determined in the step (1) that there are the table IDs matched, determining the version number included in the received section of being the same with the version number stored in a version memory of the table ID (col. 5, lines 57-67, col. 6, lines 1-26, col. 8, lines 1-54 and lines 65-67, col. 9, lines 1-67 and col. 10, lines 1-38); and if it is determined in the step (2) that the two version numbers are not the same, receiving and processing the present section (see abstract, col. 3, lines 59-67, col. 4, lines 1-36, col. 5, lines 8-45 and col. 10, lines 4-38).

Freimann does not clearly disclose "the two version number are not the same, receiving and processing the present section." But, however, Freimann shows the version number stored in the subtable node and the version in the section header (col. 10, lines 10-20) and a transmission unit for a receiving system that receives all type table including NIT table. NIT table may have a level one filtering criteria of identifying a table ID (col. 5, lines 1-45). Therefore, it would have been obvious to one of ordinary

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skill in the art at the time the invention was made to employ the teachings of Freimann such as a memory for storing table IDs, a comparing unit, and a section processing unit so as to have a device for filtering added information.

With respect to claim 7, Freimann discloses further comprising the step of skipping the section received at the present time if it is determined in the step (1) that there are no table IDs matched, or if it is determined in the step (2) that the two version numbers are the same (col. 4, lines 59-67, col. 5, lines 1-45 and col. 6, lines 1-37).

With respect to claim 12, Freimann discloses the step of automatically updating the version value stored in the version memory with a new version number upon reception of a section having a new version (col. 10, lines 4-38).

5. Claims 4-5 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,134,554 issued to Freimann et al. (hereinafter Freimann) in view of US Patent No. 6,091,772 issued to Anderson et al. (hereinafter Anderson).

With respect to claims 4-5, Freimann discloses a device for filtering added information as discussed in claim 1.

Freimann does not explicitly indicate, "mask enables the version number of the section if it is determined that the table is completed; if the version number of the section received at the present time is mask enabled."

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However, Anderson discloses an associated mask pattern to mask bits in a valid pattern as claimed (see abstract, col. 4, lines 47-54, col. 12, lines 52-67 and col. 13, lines 1-6 and lines 40-65).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Freimann with the teachings of Anderson so as to have a device for filtering added information because the combination would provide the device for filtering added information that have the table sections to be filtered through a section filter (Anderson – col. 6, lines 25-45) in the MPEG filtering in formation environment.

With respect to claims 8-9, Freimann discloses a device for filtering added information as discussed in claim 6.

Freimann does not explicitly indicate, "mask enables the version number of the section if it is determined that the table is completed; if the version number of the section received at the present time is mask enabled."

However, Anderson discloses an associated mask pattern to mask bits in a valid pattern as claimed (see abstract, col. 4, lines 47-54, col. 12, lines 52-67 and col. 13, lines 1-6 and lines 40-65).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Freimann with the teachings of Anderson so as to have a device for filtering added information because the combination would provide the device for filtering added information that have the

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table sections to be filtered through a section filter (Anderson – col. 6, lines 25-45) in the MPEG filtering in formation environment.

With respect to claim 10, Freimann discloses a device for filtering added information as discussed in claim 6.

Freimann does not explicitly indicate, "the step of determining starting of the received section with reference to a pointer field if a payload syntax indicator is '1' in a transport packet before the step of determining match of the table ID included in the section and the table IDs stored in the memory."

However, Anderson discloses a payload as claimed (col. 2, lines 9-51, col. 3, lines 57-65, col. 6, lines 55-59 and col. 7, lines 15-34).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Freimann with the teachings of Anderson so as to have a device for filtering added information because the combination would provide the device for filtering added information that have the table sections to be filtered through a section filter (Anderson – col. 6, lines 25-45) in the MPEG filtering in formation environment.

With respect to claim 11, Freimann discloses a device for filtering added information as discussed in claim 6.

Freimann does not explicitly indicate, "the step of determining starting of another section if the next data is not 0xFF after the section comes to an end before the step of determining match of the table ID included in the section and the table IDs stored in the memory."

However, Anderson discloses the 4-bit counter wraps around 0x0 after reaching 0xF as claimed (col. 9, lines 6-66).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Freimann with the teachings of Anderson so as to have a device for filtering added information because the combination would provide the device for filtering added information that have the table sections to be filtered through a section filter (Anderson – col. 6, lines 25-45) in the MPEG filtering in formation environment.

Contact Information

6. Any inquiry concerning this communication should be directed to Anh Ly whose telephone number is (703) 306-4527. The examiner can be reached on Monday - Friday from 8:00 AM to 4:00 PM.

If attempts to reach the examiner are unsuccessful, see the examiner's supervisor, Kim Vu, can be reached on (703) 305-4393.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 746-7238 (after Final Communication)

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or:

(703) 746-7239 (for formal communications intended for entry)

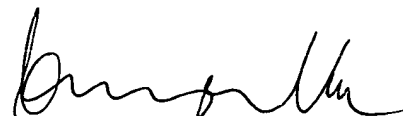
or:

(703) 746-7240 (for informal or draft communications, or Customer Service Center, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (receptionist).

Inquiries of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

AL



KIM VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Mar. 18th, 2002.